

Notice of Allowability

Application No.

10/034,523

Applicant(s)

KAUFMAN ET AL.

Examiner

Art Unit

Kyle R. Stork

2178

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to Appeal Brief filed 23 May 2006.
2. ☒ The allowed claim(s) is/are 1,10,17 and 18.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some* c) ☐ None of the:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|---|--|
| 1. <input type="checkbox"/> Notice of References Cited (PTO-892) | 5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 6. <input checked="" type="checkbox"/> Interview Summary (PTO-413),
Paper No./Mail Date <u>8.6.06</u> . |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date _____ | 7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit
of Biological Material | 8. <input type="checkbox"/> Examiner's Statement of Reasons for Allowance |
| | 9. <input type="checkbox"/> Other _____. |

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Marc McSwain (Reg. No. 44,929) on 8 June 2006.

The application has been amended as follows:

1. (Currently Amended) A computer-implemented method for generating a table of contents for a document using information in said document, comprising:

building a model of said document including an initial semantic structure;

detecting hierarchical changes in said semantic structure spanning different

scales by

applying successively smaller scale filter windows to said model according

to said initial semantic structure to construct a map of said

changes versus scale;

identifying local peaks in said contour map, said peaks being points of

maximum vector derivative magnitude;

tracing said local peaks back to a semantic structure change origin point;

measuring a span of scales over which each said change exists; and

ordering said changes into entries in said table of contents based on scale span.

10. (Previously Presented) The method of claim 1 wherein said building further comprises:

defining a vector of terms occurring in said document; and

mapping said document into a vector space by projecting scaled term occurrence

histogram data onto said vector of terms and summarizing said terms using singular-value decomposition.

15. (Canceled)

17. (Currently Amended) A system for generating a table of contents for a document using information in said document, comprising:

means for building a model of said document including an initial semantic structure;

means for detecting hierarchical changes in said semantic structure spanning different scales by

applying successively smaller scale filter windows to said model according to said initial semantic structure to construct a map of said changes versus scale;

identifying local peaks in said contour map, said peaks being points of maximum vector derivative magnitude;

tracing said local peaks back to a semantic structure change origin point;

measuring a span of scales over which each said change exists; and

means for ordering said changes into entries in said table of contents based on scale span.

18. (Currently Amended) A computer program product comprising a machine-readable medium tangibly embodying computer-executable program instructions thereon for generating a table of contents for a document using information in said document, including:

a first code means for building a model of said document including an initial semantic structure;

a second code means for detecting hierarchical changes in said semantic structure spanning different scales by

applying successively smaller scale filter windows to said model according to said initial semantic structure to construct a map of said changes versus scale;

identifying local peaks in said contour map, said peaks being points of maximum vector derivative magnitude;

tracing said local peaks back to a semantic structure change origin point;

measuring a span of scales over which each said change exists; and

a third code means for ordering said changes into entries in said table of contents based on scale span.

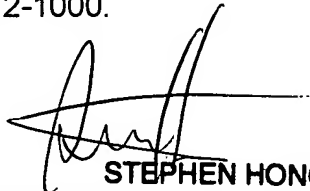
Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kyle R. Stork whose telephone number is (571) 272-4130. The examiner can normally be reached on Monday-Friday (8:00-4:30).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stephen Hong can be reached on (571) 272-4124. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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STEPHEN HONG
SUPERVISORY PATENT EXAMINER